

ABSTRACT

A humidifying cylinder includes a first rotatable cylinder having an inlet end and an outlet end and a plurality of first blades extending substantially radially outwardly from an exterior surface of the first cylinder. The humidifying cylinder

5 further includes a second rotatable cylinder having an inlet end and an outlet end and a plurality of second blades extending substantially radially inwardly from an interior surface of the second cylinder, the second cylinder being substantially coaxial with the first cylinder and the first cylinder being disposed inside of the second cylinder such that the exterior surface of the first cylinder and the interior

10 surface of the second cylinder define an annular space. At least one drive is provided for rotating the first cylinder and the second cylinder. At least one conduit is disposed in the annular space for introducing moisture into the annular space. A method of humidifying material is also disclosed.